

Evaluation Express Award Application

To request Evaluation Set-Aside funds via the Evaluation Express Award, complete the following application. Please limit your application to three single-spaced pages.

Submit your application to evaluate@od.nih.gov

Part 1: Identification

Project Title: **Evaluation of the CIP/NCI P50 In vivo Cellular and Molecular Imaging Centers (ICMIC) Program**

Applicants: (include name, title, IC or OD office, building, room, phone, fax, and email):

Dr. Anne Menkens, Program Director, Cancer Imaging Program/DCTD/NCI, Executive Plaza North, Room 6068, 301-496-9531 (Phone), 301-480-3507 (Fax), am187k@nih.gov

Dr. Daniel Sullivan, Associate Director, Cancer Imaging Program/DCTD/NCI, Executive Plaza North, Room 6052, 301-496-9531 (Phone), 301-480-3507 (Fax), sullivda@mail.nih.gov

Part 2: Purpose of the Evaluation

Indicate the type of evaluation proposed and the rationale for conducting the evaluation.

Type of Evaluation – Indicate the primary type of proposed evaluation:

- | | |
|-----------------------------|-----------------------|
| 1. Needs Assessment | 3. Process Evaluation |
| 2. <u>Feasibility Study</u> | 4. Outcome Evaluation |

Rationale for the Evaluation – Briefly describe the rationale for conducting the evaluation (e.g., Congressional mandate, stakeholder interest, general interest).

The Cancer Imaging Program (CIP) is interested in investigating the feasibility of an outcome evaluation of the In vivo and Molecular Imaging Centers (ICMIC) Program. This feasibility study will be conducted to design an outcome evaluation. CIP would use results from the outcome evaluation to determine the effectiveness of the ICMIC program, and make any adjustments deemed necessary to ensure the continued excellence of the program. CIP is preparing to conduct this evaluation now because of two additional deadlines for receipt of new or competing applications, with expiration in July, 2007. CIP will need to justify to the NCI Executive Committee with supporting evidence any request for continuation of the ICMIC program following the expiration of the existing plan, and will use the results of this evaluation at that time.

Part 3: NIH Program to be Evaluated

Provide a brief description of the NIH program or activity under consideration, including the documented goals of the program/activity.

NIH Program/activity – Name and briefly describe the NIH program/activity to be examined (e.g., organizational location, history, program size/budget, # of FTEs).

Program name: *In vivo Cellular and Molecular Imaging Centers (ICMICs)*

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Program description: The In vivo Cellular and Molecular Imaging Centers (ICMIC) Program supports the emerging field of molecular imaging by funding P20/P50 Research Center Grants. Each center is required to fund a minimum of three research components, which apply multidisciplinary approaches to molecular imaging. Also, the ICMICs provide specialized resource facilities and services. This program has resulted in the funding of two separate types of grants. In FY00 and FY01, a total of sixteen, 3-year P20 Pre-ICMIC planning grants were awarded. The P20 Pre-ICMIC grants were specifically awarded to those groups of investigators who needed to establish the multidisciplinary infrastructure and preliminary data necessary to eventually compete for a P50 award. In addition, eight 5-year P50 ICMIC Centers of Excellence have been awarded through a series of Requests for Applications (3 in FY00, 2 in FY02, 2 in FY03 and 1 new and 1 competing in FY05). To date, the cumulative NCI investment in the ICMIC program totals \$64M. The current plan for the P50 ICMICs is to make available Program Announcements that will allow for an open competition for 2 awards each year. Each P50 ICMIC grant is awarded at a total cost of \$2,000,000/year for 5 years.

Program goal(s) – Specify the documented goals of the program or the program's intended effect(s). Indicate which goals are relevant to the evaluation.

The P50 ICMIC initiatives were designed to capitalize on the extraordinary opportunity for molecular imaging to have an impact on the diagnosis and treatment of cancer patients non-invasively and quantitatively. The goal of the 5-year P50 ICMIC grants was:

- 1) To bring together interdisciplinary scientific teams to lead the nation in cutting-edge cancer molecular imaging research with clinical relevance
- 2) Provide unique core facilities to support oncology imaging research
- 3) Provide flexibility to respond to exciting pilot research opportunities
- 4) Provide interdisciplinary career development opportunities for investigators new to the field of molecular cancer imaging

The P50 mechanism promotes coordination, interrelationships and scientific synergy among the research components and resources, leading to a highly integrated imaging center. The P50 ICMIC structure allows mechanistic flexibility for each Institution to capitalize on its own unique scientific strengths, and to define the structure and research objectives that create the most synergistic and creative scientific interactions. All of these goals are relevant to the evaluation.

Goals of this feasibility study include:

1. To determine the optimal approach for evaluating the ICMIC program
2. To identify appropriate evaluation questions and adequate measures to conduct a subsequent outcome evaluation
3. To develop a detailed evaluation plan and methodology for the subsequent evaluation
4. To develop a detailed budget for conducting a subsequent evaluation

Part 4: Evaluation Design and Dissemination/Use of Results

Provide a list of key questions that you will address in the evaluation, a description of the study design, and your plans for disseminating and using the evaluation results.

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Key Question(s) to be Addressed – List the specific study question(s). These questions define what you are trying to learn from the evaluation effort and should be linked to the relevant program goals in Part 3 above.

The feasibility study will be conducted to answer the following questions:

- 1) What is the most appropriate evaluation design for evaluating the ICMICs?
- 2) What measures are appropriate for this evaluation?
- 3) What data can be collected using existing resources, and what data will require new collection methods?
- 4) How will the data be collected?

We anticipate that some questions to be answered by an outcome evaluation might be:

- 1) Has the P50 ICMIC program made a significant impact in the field of in vivo cancer imaging?
- 2) Is there a compelling scientific rationale for continuing the P50 ICMIC program?
- 3) If the P50 ICMIC program should be continued, should it be modified?

Some potential outcome measures might include:

- 1) The number of new in vivo molecular imaging experts trained and subsequently establishing laboratories of their own
- 2) Increased use of the tools of in vivo molecular imaging to answer important questions related to the molecular and cellular biology of cancer
- 3) The number of molecular imaging tools being translated into clinical use
- 4) Increased use of molecular imaging tools in the drug discovery and development process.

Study Design – Describe the overall approach you intend to use to answer the key question(s) (e.g., data sources, statistical sampling information, plans for data collection and analysis). Please note if the evaluation will require any clearances (e.g., OMB Clearance under the Paperwork Reduction Act).

The project officer and other program staff will work with a contractor to:

- 1) Finalize the set of key questions to be addressed by the outcome evaluation;
- 2) Determine what types of measures, data collection strategies, and analysis methods are most appropriate for conducting the outcome evaluation;
- 3) Develop and pretest the evaluation design and data collection tools;
- 4) Identify the timeline and resource requirements for conducting the outcome evaluation;
- 5) Develop a final report that can be used as an application for set-aside funds to conduct the outcome evaluation.

This feasibility study will not require OMB clearance because the the evaluation design is not expected to involve survey activities covered by OMB.

Dissemination/Use of Results – Describe how you will disseminate the evaluation results and how the results of the evaluation will be used. Indicate whether or not you expect to make changes to the program based on the evaluation results.

The products of this feasibility study will include an evaluation design using in the form of an application for set-aside funds to conduct an outcome study, the results of which will be used to determine whether the NCI should proceed with reissuance of the P50 ICMIC Program Announcement.

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Part 5: Project Management and Budget Estimate

Provide a project timeline, information about who will conduct the evaluation, and a summary of the anticipated costs and funding sources.

Estimated Timeline – Identify when each major evaluation task will occur, including expected start and end dates.

This feasibility study will require 6 months to complete. The project will begin upon receipt of funding.

<u>Task</u>	<u>Timeline</u>
Pre-Contract Award	
Develop project statement of work	Weeks 1-2
Solicit RFP and review proposals	Weeks 3-9
Post-Contract Award	
Develop project work plan- meet with contractor; contractor review of background material; contractor preparation of draft and final work plan	Weeks 1-6
Contact participants and hold meetings of local personnel and conference calls for investigators to discuss measures, data collection and analysis methods	Weeks 7-20
Develop and pretest evaluation design and data collection methods	Weeks 21-23
Final report – contractor draft report, NCI review, contractor final report	Weeks 23-26

Project Implementation – Describe how the project will be implemented (e.g., independent consultant, contractor selected via an RFP, task order contract). Provide the name of the contractor/consultant(s) (if known) and attach the Statement of Work (if available).

Negotiations with qualified independent consultants will commence upon award. The consultants who are deemed able to provide the best value within the identified timeframe will be selected.

Funding Amount Requested – Provide overall costs by category, including direct labor costs, other direct costs (e.g., printing, consultants, meetings, travel), and indirect costs (e.g., fringe benefits, overhead, contractor's fee). Indicate the anticipated source(s) of these funds (e.g., Evaluation Set-Aside, IC budget).

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Set-aside funds of \$50,000 are requested to support the feasibility study. An estimated budget is below. A final budget will be available after negotiations with a qualified contractor. NCI program funds will be used to cover any remaining costs.

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Express Application Budget ICMIC

7/21/2005

Anne Menkens

SUMMARY OF COSTS

<u>SALARIED LABOR</u>	HOURLY		<u>AMOUNT</u>
	<u>RATE</u>	<u>HOURS</u>	
Project Manager	65.00	10	650
Senior Researcher	50.00	210	10,500
Junior Researcher	25.00	250	6,250
EDITOR	30.00	40	1,200
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TOTAL SALARIED LABOR		510	18,600
 <u>OTHER DIRECT COSTS</u>			
COMPUTING			500
TRAVEL			100
COPYING			600
SUPPLIES			400
OTHER COSTS			100

TOTAL OTHER DIRECT COSTS			1,700
 <u>OVERHEAD</u>			
SALARIED LABOR @	100.0%		20,710

TOTAL OVERHEAD			20,710

TOTAL DIRECT PLUS OVERHEAD			41,055
G & A - @	15.0%		6,402

TOTAL COST			47,457
FEE @	8.0%		3,816

TOTAL COST PLUS FEE			51,273
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